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XLII-New South-African Spiders of the Family Drasside in the Collection of the South-African Museum. By W. F. Purcell, Ph.D., Cape Town. [Plates XIII.-XV.]
The spiders of the family Drassidæ are particularly numerous both in species and individuals throughout all the non-tropical parts of South Africa. Only very few SouthAfrican species have, however, as yet been described, and the entire collection in the South-African Museum, with the exception of one or two forms, is still new to science. The present paper contains the descriptions of fifty-three new species, being that portion of the Collection pertaining to the genera Platyoides, Cambr., Theuma, E. Sim., Drassodes, Westr., Scotopheeus, E. Sim., and Melanophora, C. Koch, as defined in Simon's Hist. Nat. Araign. 2nd ed., together with two new genera for certain forms which did not seem to fall into any of the genera recognized by Simon. In the present uncertain state of the classification of the Drassida all of these genera are to be considered as more or less of a temporary nature. All localitics are in (ape Colony, cxcept when otherwise stated.

> Genus Platyoldes, Cambr.

1. Platyoides bidentatus, sp. n. (Plate XIII. figs. 1 \& 2.)
Specimens. - (a) $3 \quad \& \quad \&$ and 1 from Kentani and Ann. \& Mag. N. Llist. Ser. 7. Iol. sx.

District, collected by the Rev. Dr. F. C. Kolbe and Miss Alice Pegler; May.
i ㅇ (types).-Colour of carapace and chelicera mahoganybrown; sternum and three basal segments of legs yellow, the sternum with a deep blackish-red border all round, the remaining leg-segments (especially the patellæ) and the apex of each femur more or less infuscated; abdomen blackened above, with or without a longitudinal row of more yellowish areas on each side of the median line, the underside paler, yellowish, whitish, or more or less infuscated.

Carapace longer than broad, its median length equal to that of the tibia and $\frac{0}{\overline{3}}$ or slightly more of the metatarsus of first leg, its margins with slender spines. Anterior median eyes about a diameter apart, their distance from the anterior laterals about $1 \frac{3}{4}$ times their distance fromi one another. Posterior median eyes obliquely oval, about two long diameters apart and about three from the posterior laterals.

Chelicera with spiniform sete above, the inner margin with a dense stripe of slender sete borne on small granules and with 2 rather strong and conspicuous teeth in the stripe.

Legs with spines and spiniform setre on the basal segments above and with long black setæ on the other segments; tarsi and metatarsi of two anterior pairs with scopula below, that on the first metatarsus extending over the distal half at least, but that on the second confined to the apex of the segment; tibix not scopulate.

Vulva as in Pl. XIII. fig. 1; the T-shaped depression with the longitudinal portion finely pointed posteriorly and the transverse portion slightly recurving at each end.
$\delta^{\pi}$.-Very much smaller, being less than half as long as the 8.

Carapace yellowish, its length as in the of the eyes closer together, the anterior medians at least as close to the laterals as to one another, being an eye's diameter or less from them ; the posterior median eyes about a diameter from one another and $1 \frac{1}{2}$ diameters from the posterior laterals.

Chelicera toothed as in the $q$.
Pedipalps short; the femur cylindrical, longer than the patella and tibia together, with mesial spine above; the tibia shorter than the patella, with small apical process on upper outer edge; the tarsus strongly convex, ovate, obtusely lolate at base on outer side; palpal organ as in Pl. XIII. fig. 2.

Length of trunk (carapace and abdomen) of o $11 \frac{1}{2}-12$, $\delta 4 \frac{2}{3}$, of carapace of $4 \frac{3}{4}, \delta 2$; width of carapace $\frac{q}{} 4 \frac{1}{2}$, の $1 \pm \frac{1}{5} \mathrm{~mm}$ 。
(b) 1 if from East London (J. Wood).
(c) 2 of $\circ$ from Port St. Johns, Pondoland (Guy Shortridge).

Somewhat resembling P. Abrahami, O. P. Cambr., and $P$. laterigradus, Poc., in the form of the vulva, but possessing two strong teeth on the chelicera.

## 2. Platyoides quinquedentatus, sp. n. (Plate XIII. fig. 3.)

Specimens.-2 $\circ$ ㅇ $ㅇ$ and 1 young from Swellendam (II. A. Fry, 1900).

ㅇ ㅇ.-Colour of carapace and chelicera dark mahoganybrown; legs similarly coloured or lighter and more yellowish, the anterior pairs more reddish than the posterior ones, all partially infuscated, the femora not paler than the distal segment; abdomen blackened, with a paler, more or less yellowish, longitudinal dorsal stripe on each side above, the ventral surface pale yellowish; sternum reddish yellow.

Carapace as long as the tibia and $\frac{1}{4}-\frac{1}{3}$ of the metatarsus of first leg, the margin with spiniform setre and slender spines. Anterior median eyes almost a diameter apart and almost two diameters from the laterals, their distance from the latter being double their distance from one another; posterior median eyes almost transversely oval, about $2 \frac{1}{2}$ diameters apart and almost 3 diameters from the laterals.

Chelicera with 5 very strong teeth in the distal half of the inner margin, besides the row of setæ ; upperside with spiniform sete.

Legs with spiniform setre on basal segments, the distal segments with slender setæ; two anterior pairs of tarsi and metatarsi scopulate along whole length below, the first tibia also with tiny apical scopula.

Vulva of two black pear-shaped depressions, appearing (in spirits) as in Pl. XIII. fig. 3.

Length of trunk in of o $11-12 \frac{1}{2}$, of carapace $4 \frac{1}{2}-5$; width of carapace $4 \frac{1}{4}-4 \frac{1}{2} \mathrm{~mm}$.

## Genus Theuma, E. Sim.

## 1. Theuma capensis, sp. n.

Specimens.- (at) 10 of of, (i) $\delta$, and 1 young from the drier slopes of the mountains of the Cape Penimsula, especially the slopes above Camps Bay. of from September to December.
of ㅇ.-Colour yellow, the head, chelicera, tarsi, and metatarsi more rufescent; the abdomen pale yellowish, with yellowish or pale fuscous hairs and darker setac.

Anterior row of eyes scarcely procurved，the medians distinctly smaller than the laterals；posterior row of eyes slightly recurved，the eyes equal，the medians slightly oblique，about a diameter（rarely distinctly less than a diameter）apart and $1 \frac{1}{2}$ diameters from the laterals，the latter distinctly a little nearer to the anterior laterals than to the posterior median eyes．

Chelicera with 4－5 superior and only 2 （rarely 3）inferior tecth．

Legs．－Metatarsus I with 1－2 inner and 2 outer inferior spines，narrowly scopulate on each side，but not between the rows of spines below．Tibia I with 4－5 inner and 3－6 outer spines below，not distinctly scopulate or at most with a few scopulate hairs along the rows of spines．

Vulva－plate longer than wide，the triangular fovea wide behind，narrowed in front．

Inferior spinners relatively short，the length of the basal segment taken below a little less than the width of the ocular area．
$\sigma^{\circ} \mathbf{o}^{\circ}$－LLegs longer；metatarsus I with 2 inner and 3 outer spines below；tibia I with 4 pairs of inferior spines and sometimes with an inner lateral spine as well．

Inferior spinners longer，the length of the basal segments exceeding the width of the ocular area．

Tibia of pedipalps short and thick，its outer process longer than the segment and suddenly deflexed at apex．C＇arsus with a short curved process near the middle of the outer edge．

Length of trunk（carapace and abdomen），if 우 5－7，of ot $4 \frac{1}{2}-5 \mathrm{~mm}$ 。

A variety of this form with four minute teeth instead of two on the inferior immer margin of the chelicera is represented by the following specimens ：－
（b） 1 万from Ceres（ $W . F . P$. ）．
（c） 1 if from near Tulbagh Road Station（W．F．P．）．
（d） 1 from Caledon．

## 2．Theuma fusca，sp． 1 ．

Specimens．－（a） 6 of $o f$ from the Montagu Baths，a number of young from Kogmans Kloof，and 2 万 o from Aston， Robertson Div．，all found by my wife and myself．

우 오．－Colour ochraceous，head and chelicera rufescent； abdomen pale yellowish below，densely clothed above with infuscated hairs．

Anterior row of eyes slightly procurved，the laterals very
distinctly larger than the medians; posterior row more strongly recurved than in T. capensis, sp. n., the medians smaller than the anterior laterals, rotund, about a diameter (rarely less) apart and less than two diameters from the laterals, the latter eyes perhaps a trifle larger than the medians and about as far from them as from the anterior laterals.

Chelicera with 3 larger and 1 small superior and 3-4 inferior teeth.

Metatarsus I with 1-2 inner and 2 (rarely 1) outer spines; tibia I with 3 pairs of inferior spines (including an apical pair) and sometimes with another internal spine as well.

Vulva-plate with the triangular fovea wider behind, its anterior end opening into a small circular fovea.

Inferior spinners long, the length of the basal segment much exceeding the width of the ocular area (except in one specimen where the spinners were perhaps damaged in youth).
$\delta \delta$-Legs much longer than in the of $q$ and more mumerously spined. Metatarsus I with 4 strong spines. Thibia I with $0-1$ outer and 1-3 inner spines in addition to the 3 inferior pairs. Posterior median eyes sometimes less than a diameter apart. Hairs on abdomen rubbed off. Pedipalps as in T. capensis, sp. n.

Length of trunk, of o $8 \frac{3}{4}-11$, ठ ठ $6 \frac{3}{4}-7 \frac{3}{4} \mathrm{~mm}$.
(b) $2 \delta \delta$ and 1 young from Bergvliet, Cape Peninsula (IV.F. P.).

## 3. Theuma Schreineri, sp. n.

Specimens.-2 $q$ q and 5 ठ $\delta$ from Hanover (S. C. Cronwright Schreiner, September to November 1901, and G. Shortridge, 1903).

Differing from T. fusca, sp. n., as follows :-
ㅇ \& .-Hairs on abdomen paler, brownish.
Posterior row of eyes straighter, only very slightly recurved; the eyes subequal, the lateral eyes distinctly a little nearer to the anterior laterals than to the posterior median eyes.

Chelicera with $4-5$ superior teeth, the proximal one small.
Tibia I with 3-4 pairs of non-apical and $0-2$ apical spines below, and frequently with 1-2 outer and 1-2 inner spines on the sides as well.

ठ ${ }^{7}$. - Metatarsus I with 5-7 spines. 'libia I with 5-6 pairs of spines below, besides 2 outer and 2-4 inner spines on. the sides.


Another of from the same place and apparently belonging to the same species is much larger, its carapace atone measuring $4 \frac{3}{4} \mathrm{~mm}$. in length.

## 4. Theuma maculata, sp. n.

Specimens.-2 of ㅇ (one not quite mature), 1 § , and 1 juv. from Beaufort West (W. W. P., September 1896).

오 (types). - Colour yellow, the abdomen pale yellow below, spotted with black on the sides; the upper surface with a broad irregular hand of black on each side and a narrow median black stripe, connected with the lateral bands by a series of oblique black stripes.

Anterior row of eyes very distinctly procurved, the laterals very distinctly larger than the small medians; posterior row distinctly recurved, the median eyes almost rotundate and rather large, considerably larger than the anterior medians, and nearly as large as the anterior laterals, their distance apart distinctly less than a diameter, the lateral eyes equidistant from the medians and anterior laterals.

Chelicera with 3 large and 1 small superior and 3-4 inferior teeth.

Spines of legs, vulva, and spinners much as in the T'. fuscu, sp. n.
s.-Like that of T. fusca, apart from the ocular characters, except that the tibia of the pedipalps is much more elongate, being distinctly longer along the inner side than thick, its length equalling that of the outer process.

Length of $\frac{q}{} 7$, 大 $7 \frac{1}{2} \mathrm{~mm}$.

## 5. Theuma cedri, sp. n.

1 of from Boschkloof Waterfall, Cedar Mountains, (Clanwilliam Division (R. Pattison, November 1897).

Colour yellow ; the head, chelicera, and extremities of the legs rufescent; abdomen pale yellow, the upperside clothed with dark hairs, which form spots posteriorly (the hairs rubbed off in the middle, but probably arranged as in T. maculata, sp. n.).

Eyes and spinners much as in T. maculata.
Mletatarsus I with 4 strong spines. Tibia I with 3 pairs of inferior spines (including an apical pair) and 2 internal spines in addition.

Chelicera with 3 superior and 3 inferior teeth, the latter stronger than usual.

Vulva-plate with the fovea elongate and narrow behind.
Length 9 mm .

## 6. Theuma mutica, sp. n.

1 of found at Kogmans Kloof, Robertson Division, in August 1900, by my wife.

Colour.-Carapace more or less infuscated, darkest at the lateral margins, paler and yellowish along the middle of anterior half and along posterior border. Chelicera and sternum ochraccons. Legs yellowish, faintly infuscated in parts. Abdomen pale yellowish below, deeply infuscated above and at the sides.

Anterior row of eyes slightly procurved, the laterals much larger than the medians. Posterior row of eyes straight, the medians oval, oblique, very close together, separated by less than half a length, but at least an cye's length from the laterals; these latter scarcely larger than the medians and close to the anterior laterals, being less than a diameter from them.

Chelicera with 2 larger proximal and 3 smaller distal teeth in the superior row, and only 1 minute tooth in the inferior row.

Legs with numerous fine small spines seattered irregularly on the mader surface, the first leg without any strong spines below ; second leg with a strong mesial spine on tibia ; third and especially fourth leg strongly spined on underside as well as on upper.

Vulce-plate broader than long, consisting of a pair of oval reddish disks separated by a narrow triangular fovea.

Inferior spimers long.
Length $4 \frac{1}{2} \mathrm{~mm}$.
A very distinct species.
7. Theuma parra, sp. n.

1 б from Eierfontein, 8-9 miles west of Hanover (S. C. Cromwright Scheiner, Jimuary 1902).

Colour very pale yellowish.
Anterior row of eyes slightly procurved, the medians a little smaller than and tonehing the laterals, but a little separated from each other. Posterior row of eyes straight (seareely recurved at all), the subrotund median eyes comparatively large, being larger than the laterals and at least as large as the anterior laterals, their distance from one another less than an eye's diameter and slightly greater than their distance from the posterior laterals, the latter eyes about as far from the anterior laterals as from the posterior medians.

Chelicera with 4 superior and $\grave{3}$ smaller inferior teeth.

Legs.-Metatarsus I with 3 long spines at base. Tibia I with 3 pairs of inferior spines (including an apical pair).

Pedipalps very like those of $T$. capensis, sp. n., except that the bulb is relatively much larger than in any of the foregoing species.

Inferior spinners shortish, their length only just exceeding the width of the ocular area.

Length of carapace and abdomen $3 \frac{3}{4} \mathrm{~mm}$.
A very distinct species.

## Table of the Species of Theuma* described above.

a. Posterior row of eyes straight, the medians being a little nearer to the laterals than to one another. (Hanover Dir.) ........... o T. parva, sp. n.
b. Posterior row of eves more or less recurved, the medians always nearer to each other than to the lateral eres.
$a^{2}$. Posterior row of eyes only slichtly recurved, the laterals being distinctly a little nearer to the anterioi laterals than to the posterior median ejes.
$a^{3}$. Females.
$a^{4}$. Inferior spinners shortish, the length of the basal segment taken beluw being less than the width of the posterior row of eyes. (Cape, Tulbach, and Caledon Dive.) ......... of T. capensis, sp. n.
$b^{2}$. Inferior spinners long.
$a^{3}$. Anterior pair of legs strongly spined below. (Hanover.)...... \& T. Scheineri, sp. n.
$\varepsilon^{5}$. Anterior pair of legs with no strong spines below. (Hobertson Div.) ㅇ T. mutica, sp. n.
$b^{3}$. Males.
$a^{r}$. Tibia I with 4 pairs of spines below.
(Cape and Ceres Divs.)
ठ T. capensis, sp. n.
$\ell^{5}$. Tibia I with 3 pairs of spines below. (Hanover.)
o T. Schreineri, sp, n.
$b^{2}$. Posterior row of eyes more strongly recurved, the laterals being about as far from the anterior laterals as from the posterior median eyes.
$a^{7}$. If with the posterior median eyes smaller, about a diameter apart. © with the outer process of the tibia of pedipalps much longer than the short tibia. (Robertson and Cape Divs.) .. of it T. fusca, sp. n.

* Two other South-African species, T. sylina and T. aprica, E. Sim., have been described (Hlist. Nat. Arajen. 2nd ed. P. 35l), but no locality is giveu in either case.
$b^{7}$. I with the posterior median eyes largish, less than a diameter apart. $\sigma$ with the outer process of the tibia of pedipalps about as long as the rather elongate tibia.
$a^{4}$. Vulva of $q$ with the forea widened behind. (Beaufort West.) ...... ơ $q$ T. maculata, sp. n.
$b^{8}$. Vulva with the forea narrow behind. (Clanwilliam Div.) . . . . . . . . . . . . . \& T. cedri, sp. n.


## Genus Drassodes, Westr.

## 1. Drassodes lophognathus, sp. n. (Pl. XILI. figs. 4-6.)

Specimens.-(a) 5 of $q, 4 \delta^{7}$, and 7 young from the northwestern slopes of the Devil's Peak, Cape 'Town, under stones (W. F. P.).
of ㅇ (types). Colour.-Carapace pale ochraceous, the head often darker brown; chelicera ochraceous to brown; legs pale yellow, the femora very pale, the anterior pairs of legs often brownish yellow distally ; sternum pale ochraceous to brownish yellow ; abdomen pale yellowish, the upper surface and the posterior part of the sides marked with numerous short black bars and round spots, the anterior half also with a broad, wedge-shaped, median black band, the under surface and the sides pale yellow or more or less infuscated.

Carapace broad in front, the width of the head across the second line of eyes being at least $\frac{2}{3}$ of the greatest width of the carapace.

Eyes.-Anterior row considerably procurved, the eyes subequal ; the posterior row lightly procurved, the median eyes clongate oval or triquetrous, subcontiguous or as much as half a long diameter apart, and almost or quite a long diameter from the smaller lateral eyes. Median eye-area longer than wide and parallel-sided.

Chelicera with the two inferior teeth of moderate size, the distal one being usually a trifle smaller; middle superior tooth very strong, the other two superior tecth small.

Legs.-Metatarsus I with $0-2$ inferior basal spines. Tibia I unspined, IV without dorsal spines. T’arsi I-III and metatarsi I-II distinctly seopulate at the sides below ; tarsus IV and meratarsus III with narrow strip of seopular hairs, the fourth metatarsus with a few external scopular hairs in some specimens at least.

Vulva-plate (Pl. SIII. fig. 6) very large, consisting of a brown, horseshoe-shaped curved rim enclosing a large deep
cavity, which is divided longitudinally by a broad, pallid, wedge-shaped keel, dilated anteriorly to form a T ; hind part of the rim with a pair of dark admedian spots.
$\delta \delta$.-Anterior part of head and the chelicera and other month-parts often reddish black, the abdominal spots also generally more sharply marked.

Coxce of pedipalps strongly depressed, transversely ridged in the middle, the depression hordered on the onter side as well as on the imner by a well-marked keel, which is absent on the outer side in the female.

Chelicera with the imer margin simuated near the middle and lobate at the base, the superior distal edge of the imner margin with the two proximal teeth fused to form a low keel on which the point of the proximal tooth is usually not distinguishable; this margin also much more oblique distally than in the $q$.

Pedipalps short; the tibia together with its strong superior process longer than the patella, this process broadly and obliquely tromeated at apex and slightly simuated on upper imner margin near apes, the lower edge acute at apex; tarsus large, as long as the patella and tibia together (inchsive of the tibial process), somewhat polygonal in outline (Pl. XII. fig. 4), the outer edge being slightly sinuated, the immer edge with a few fine spiniform setæ. Palpal organ very large, as in Pl. XIII. fig. 5.

Length of trunk, if of $5 \frac{1}{2}-\mathrm{S}$, of of $5 \mathbf{- 6 ~ m m}$.
(b) Other specimens from the Cape Peninsula (Table Mountain, Camps Bay, Cape Flats, Simonstown). In one of these (a of) the chelicera have three inferior and four superior teeth.
(c) 1 it from Stellenbosch (L. Péringuey).
(d) 5 o $o$ from the Pass at Avontum near Stormsvlei, Swellendam Division, collected by my wife and myself.
(e) 1 o and 1 from St. Helena Bay, Malmesbury Division (J. E. C. Goold).
(f) 1 of from Onder Berg Vlei, Clanwilliam Div. (C. L. Leipoldt).
(g) If from the Hex River Valley, Worcester Div. (F. Treleaven).
(h) 3 it of from Toums River, Worcester Div. (W. F. I'.).
(i) 3 万 $\delta$ and 7 of $i$ from Matjesfontein, Worcester Div., and
(j) $1 \delta$ and 4 of of from Laingsburg, Pr. Albert Div., coliected by Mr. R. M. Lightfoot, my wife, and myself.
(k) 1 of from Beaufort West (W.F.P.).
(1) 3 of $\circ$ from Willowmore (Dr. H. Brauns).
'The T-shaped median ridge of the vulva is normally white in colour, but occasionally it is more or less lightly browned ; the posterior part, too, is sometimes broad behind and parallel-sided, instead of being wedge-shaped. The carapace of the $\circ$ does not exceed $2 \frac{4}{5} \mathrm{~mm}$. in length in the largest specimen, that of the largest $\delta^{*}$ being slightly less. 'The anterior lateral eyes are their own diameter or less from the anterior margin of the carapace. The spots on the abdomen are occasionally absent. In some $\boldsymbol{\sigma}^{\pi} \delta^{\boldsymbol{\alpha}}$, notably those from Matjesfontein, the two proximal teeth of the superior margin of the chelicera are less completely fused and separately distinguishable.

The species is closely allied to $D$. morosus (O. P. Cambr.) from Palestine, the figure of whose palp, given by Cambridge (P.Z.S. 18i2, pl. xv. fig. 9), almost exactly resembles the palp of D. lophognathus, sp.n. In D. morosus, however, the eyes of the posterior row are said to be equidistant from each other. D. omissus (O. P. C'ambr.), from Palestine, has a very similar vulva (P. Z. S. 1872, pl. xv. fig. 17).

## 2. Drassodes tessellatus, sp. n. (Pl. XIII. figs. 7 \& 8.)

Specimens.-(a) $17 \delta \delta^{\sigma}$ and 45 우 우, besides a pair in copula; also 6 of of with variety of the vulva; all collected at Hanover by Mr. S. C. Cronwright Schreiner in 1901.

Very closely allied to D. lophognathus, sp. n., but larger, and differing principally in the form of the proximal tooth on the inner side of the large sigmoid process of the palpal organ, this tooth (which is hidden under the tarsus) forming a broad truncated lobe and much broader than the distal tooth (Pl. XIII. fig. 8).

Colour.-('arapace often rufescent, the head and chelicera red, the legs yellowish or reddish yellow, the abdomen speckled as in lophognathus.

Posterior median eyes slightly more than an eye's diameter from the laterals, and the anterior lateral eyes generally slightly more than a diameter from the anterior margin of the carapace.

Chelicera of ot with the two proximal teeth on superior inner margin fused to a keel or more or less separate.

Vulva of 오 오 normally resembling that of lophognathus, the median T-shaped ridge being generally whitish; often, however, this ridge is browned or reddened, and in the

6 오 ㅇ mentioned above it is dark brown or black, the transverse cavity in front of it then often with a brown margin, as in Pl. XIII. fig. 7.

Length of trunk in of reaching $10 \frac{1}{2} \mathrm{~mm}$. ; length of carapace in of up to 4 mm .
(b) $1 \delta^{7}$ and 1 if from Steynsburg Division, Cape Colony (G. G. Ponder).

## 3. Drassodes solitarius, sp. n. (Pl. XIII. fig. 9.)

1 of from Hanover (S. C. Cronwright Schreiner).
Very like 1). tessellutus, sp. n., but still larger and with somewhat different vulva.

Colour.-Carapace rufescent, the head and chelicera deeper red, legs ochraceous; abdomen pale yellowish, the dorsal spots only faintly marked, the anterior half with a median pale dorsal stripe bordered on each side by a darker stripe.

Anterior median eyes slighty nearer together than in tessellutus, their distance apart being scarcely twice their distance from the lateral eyes; posterior median eyes distinctly more than a diameter from the posterior laterals.

Chelicera with all the teeth rather strong, the middle superior tooth very strong.

Vulva as in Pl. XIII. tig. 9, the horseshoe rim being relatively broader and more transverse and with its anterior ends more strongly converging than in the preceding forms.

Length of trunk 10 , of carapace $4 \frac{1}{2} \mathrm{~mm}$.

## 4. Drassodes caffrerianus, sp. 11. (Pl. XIII. fig. 10.)

1 of from the Keneha Bridge, about 22 miles west of Maclear, Pondoland (A. S. Weisbeeker, Angust 1903).

Colour pale yellow, with black reticulation and lairs; legs pale yellow, many of the segments faintly infuscated ; abdomen black above, the underside yellowish but infuscated ; sternum pale yellowish, with black edges. (The specimen, when caught, had evidently but recently moulted, and maturer specimens would probably be much darker.)

Closely allied to D. lophognathus, sp. n., but differing principally as follows:-

Chelicera only very feebly sinuated on inner edge, the large tooth of the superior inner margin not keel-like, but erect and conical, and accompanied by a tiny sccond tooth on its proximal side.

Pedipalps closcly resembling those of lophognathus, but with different dentition on the medial distal process (Pl. XIII. fig. 10).

Length of trunk $4 \frac{1}{5} \mathrm{~mm}$.
5. Drassodes calceatus, sp. n. (Pl. XIII. fig. 11.)

2 if if from Matjesfontein.
Very like $D$. lophognathus, sp. n., but with the vulva different and shaped as in Pl. XIII. fig. 11.

Length of trunk $5-5 \frac{3}{4} \mathrm{~mm}$.
The abdomen is much more thickly spotted on the ventral surface than is the case in any of the female specimens of lophognathus from the same locality.
6. Drassodes Gooldi, sp. n. (Pl. XIII. fig. 12.)

2 of from Stompneus, St. Helena Bay, Malmesbury Div. (J. E. C. Goold).

Closely allied to D. calcatus, sp. n., but larger and without the infuscate spots on the abdomen.

Vulva as in Pl. XIII. fig. 12; the anterior margin of the anterior cavity brown, and therefore much more distinct than in calceatus, and also more strongly emarginate in the middle.

Length of trunk 8 , of carapace $3 \frac{1}{4} \mathrm{~mm}$.
7. Drassodes lyratus, sp. n. (Pl. XIII. fig. 13.)

1 of from Matjesfontein, Worcester Div.
Very like 1). lophognathus, sp. n., but with the vulva different, as in Pl. XIlI. fig. 13.

The abdomen has two fine longitudinal stripes below behind the vulva, but there are no dark spots on the dorsal surface.

Length of trink $5 \frac{1}{2} \mathrm{~mm}$.

> 8. Drassodes helenar, sp. n. (Pl. XIII. figs. 14 \& 14 a.)

1 б from Stompneus, St. Helena Bay, Malmesbury Div. (J. E.. C. Goold).

Allied to D. lophognathus, sp. n., with simitar maxillw, \&ec., but of larger size and with somewhat different pedipalps.

Carapace rufescent, the head and chelicera blackish red ; abdomen numerously spotted above, the under surface without spots.

Anterior legs unspined.
Posterior median eyes large, angular, subcontiguous, and about their own diameter from the laterals.

Pedipalps with the tarsus narrower and symmetrically oval in outline when seen from above, its length almost equalling. that of the patella and tibia together (inclusive of the tibial process) ; surface of the tarsus with slender scattered spines and spiniform setæ, the inner edge with some stronger curved spines, the outer edge convex, not sinuated. Palpal organ also smaller, appearing as in Pl. XIII. fig. 14, when seen from below; the medial distal process of the bulb with simple apex and provided near the middle on the upper surface with a single erect tooth (only scen on lifting the tarsus, as in Pl. XIII. fig. $14 a$ ).

Chelicera with strongly oblique inner distal margin, the upper margin with a strong keel-like tooth remote from the apex, the medial sinus short and deep.

Length of trunk $7 \frac{3}{4}$, of carapace $3 \frac{3}{4} \mathrm{~mm}$.
This may, perhaps, be the ${ }^{\top}$ of D. calceatus, sp. n.e, from the same locality, but in the latter the infuscated markings, on the abdomen are obsolete, while they are strongly marked in D. helence.

## 9. Drassodes Dregci, sp. 11. (Pl. XIII. fig. 15.)

2 of from Port Elizabeth (J. L. Drège, July 1899).
Colour of carapace yellow or rufescent, the head and chelicera reddish; legs yellowish or reddish yellow; abdomen pallid, with numerous black spots in rows, the moder surface with or without spots; sternum reddish yellow, with darker cdges.

Closely resembling $D$. lophognathus, sp. n., but with different vulva, the transverse cavity and fold in front of the horseshoe-shaped ridge foind in all the females of Drassodes described in the preceding pages being absent. Appearance of vulva in spirits as in Pl. XIII. fig. 15.

Chelicera with the two inferior tceth rather small, slightly unequal.

Length of trunk 6 mm .

> 10. Drassoles ereptor, sp. 11 .
> (Pl. X111. figs. 16 \& 17.$)$

Specimens-(a) 5 of from the Hot Baths at Montagu (IT. F. P., November 1902).
i ㅇ. Colour.-Carapace and stermm mahogany-brown,
the chelicera slightly darker; legs yellowish brown, the two anterior pairs with the three distal segments darker brown ; abdomen more or less infuscated, the ventral surface generally paler.

Carapace broad ; width of the head across the second line of eyes a little more than half but less than two thirds of the greatest width of the carapace. Anterior row of eyes procurved, the eyes subequal, the posterior row lightly procurved, the medians obliquely elongate-oval, subcontiguous, and about an eye's diameter or slightly more from the smaller lateral eyes; median eye-area long, slightly wider in front than behind.

Chelicera with 2 strong, equal (rarely slightly unequal) inferior teeth (occasionally with a third minute tooth in addition); the superior teeth 3 in number, the middle one very strong, the proximal one small.

Legs robust; the anterior pair unspined below, the tarsus rather short, its length being only about $\frac{3}{3}$ of that of the metatarsus; tarsi and metatarsi of two anterior pairs densely and broadly scopulate to the base below; posterior tarsi more feebly scopulate, but the metatarsi with only a few scopular hairs; fourth tibia with a dorsal spine near base.

Sternum broad.
Vulva as in Pl. XILI. fig. 16.
Length of trunk 8-10 $\frac{1}{4}$, length and width of carapace in largest o $4 \frac{1}{2}$ and $3 \frac{1}{2} \mathrm{~mm}$.
(b) 1 of from Clanwilliam (C. L. Leipoldt, October 1897).
(c) 1 if from Bosch Kloof in the Cedarberg Range, Clanwilliam Div. (C. L. Leipoldt, December 1897).
(d) 1 of from Salt River Flats, near Cape Town (IV. F. P., April 1896).
$\delta$.-Closely resembling the $i f$, with similar chelicera, legs, eyez, \&c.

Maxillce normal, without keel on outer edge of lower surface.

Pedipatps.-Tibia cylindrical, strongly spined at apex and provided with a small cxternal diverging spur, which is tupped with a sharp, curved, black tooth, its length (exelusive of the spur) subequal to that of the patella; tarsus narrowovate, acuminate, small, about as long as the patella and half the tibia (exclusive of the spur), its inner side with several spines; palpal organ with a long slender spine commencing. near base and extending along under surface to apex (Pl. Nlll. fig. 17).

Length of trunk $63 \frac{3}{4} \mathrm{~mm}$.
The abdomen of the ot has a small scutellum in front.

## Scotophceus relegatus, sp. n. (Pl. XIII. figs. 18 \& 18 a.)

Specimens.-(a) 1 б from Cape Town (E. A. Morris). Colour.-Legs and carapace pale ochraceous; the head and chelicera testaceous yellow; abdomen yellowish, darker posteriorly, with large scutum in front.

Carapace narrowed in front, the width of the head across posterior line of eyes being more than $\frac{1}{2}$ but considerably less than $\frac{2}{3}$ of the greatest width of the carapace; head much depressed. Anterior row of eyes procurved, the modians largest, their lower margins, seen from in front, in a line with the centres of the laterals, the length of the elypeus equal to that of a lateral eye, the median eyes only narrowly separated from the laterals. Posterior row of eyes lightly procurved, the median eyes slightly oval, almost rotund, small, being only slightly larger than the lateral eyes, their distance apart a little less than an eye's diameter and their distance from the laterals equal to nearly $1 \frac{1}{2}$ diameters.

Chelicera much attenuated at apex, the upper margin with one large and a couple of small teeth and the lower margin with one small tooth.

Maxillce rather long, dilated externally at apex, the outer margin being emarginate.

Sternum rather narrow, strongly attenuated in front and produced.

Legs stoutish and rather short, the tarsi and anterior metatarsi scopulate to the base, the posterior metatarsi scopulate at apex only; anterior metatarsus with a pair of basal spines; first tibia with 3 inner and 2 outer spines below and some distal scopular hairs on inner side.

Pedipalps.-Patella slightly longer than the tibia (exclusive of the process), the two segments together almost equal in length to the small tarsus; lateral process of tibia small, terminating in a sharp incurved claw ; palpal organ with black spiral-shaped distal spine and a rod hook-like process on outer side next to the spine ( Pl . XIII. figs. 18 \& $18 a$ ).

Length of trunk $8 \frac{1}{4} \mathrm{~mm}$.
(b) I of from Robben Island in Table Bay (A. Tucker), measuring only 5 mm . in length.

There are also a number of females in the Collection apparently belonging to several species.

## Genus Diapiractus＊，nov。

Carapace longish ovate，depressed，broad in front，with thoracic stria．Anterior row of eyes almost straight，the eycs a little separated from one another，the medians largest． Posterior row of eyes considerably wider and slightly pro－ curved，the medians subrotund，small．Lateral eyes on each side a little nearer together than the anterior and posterior median eyes．Chelicera strong，somewhat attenuated at apex， the oblique superior margin with three small teeth remote from one another ；no inferior teeth present．Labium elon－ gate，narrow，and parallel－sided，only slightly attenuated， emarginate at apex，and reaching almost up to the inner angles of the maxillæ，the lateral margins narrowly keeled， the surface depressed between the keels．Maxillie broad， strongly depressed，slightly dilated externally at apex and emarginate behind the dilation，the base attenuated，the inner margin straight，the outer margin strongly convex in posterior two－thirds，the posterior three－fourths of maxilla bordered along inner，posterior，and outer margins by a strong con－ timous keel．Sternum long－ovate，strongly attenuated in front and produced．Legs robust，short，the posterior pairs numerously，the anterior pairs more sparsely spined．

Apparently closely allied to Scotophceus，E．Sim．，but resembling a Clubiona in appearance．

Type：D．Leipoldti，sp．n．

## Diaphractus Leipoldti，sp．n．（Pl．XIII．fig．19．）

1 of from Rondegat，near Clanwilliam（C．L．Leipoldt）．
Colour．－Carapace testaceous yellow，the head in front and the chelieera reddish；legs pale yellow，the distal segments of the anterior pairs reddish；sternum and mouth－parts reddish testaceous below；abdomen pale yellowish，with brownish hairs．

Carapace．－Width of head across posterior line of eyes at least $\frac{⿳ 亠 二 口}{3}$ of the greatest width of the carapace．Clypeus slightly less than a lateral eye in length；posterior eyes of equal size， small，the medians about a diameter and a half apart and quite two diameters from the lateral cyes．

Legs．－All the tarsi and the anterior metatarsi scopulate to the base；metatarsus I with $1-2$ basal spines；tibia I stout，with tiny scopula on each side at apes，and with 2 short outer and 2－3 short imer spines betor．

[^0]Vulva (Pl. XlII. fig. 19) with broad median keel, a cavity (bordered externally by a curved ridge) on each side of the keel, and a large receptaculum partly on outer side of and partly below each cavity.

Length of trunk $11 \frac{1}{2} \mathrm{~mm}$.

## Genus Xeropheus, nov.

Carapace moderately convex, attenuated in front, with thoracic stria. Anterior row of cyes strongly procurved, the median cyes large. Posterior row of eyes wider, moderately or strongly procurved, the median eyes generally large, obliquely oval or angular and rather close together. Lateral eyes of each side much closer together than the anterior and posterior median cyes. Chelicera hardly or not attenuated at apex, with three (sometimes two) superior teeth and one inferior tooth, the latter absent in some species. Sternum as in Drassodes, rather broad in front, or, at any rate, not strongly attenuated nor produced. Legs generally rather short and robust, the anterior pairs spined below on the metatarsi and tibiæ; tarsi and anterior metatarsi scopulate to the base, the posterior metatarsi and often also the anterior tibia scopulate distally. Abdomen of male scutate above at basc.
'I'ype: $X$. capensis, sp. 1.
This genus is evidently closely allied to Scotophecus, which differs from it, according to Simon's diagnosis, principally in having the sternum strongly attenuated in front. In Scotophoeus, also, both rows of eyes are apparently straighter, the chelicera more strongly attenuated at apex and the head more depressed.

The species fall into two sections:-
§ 1. Speaies in which the median groove of the vulia of the female
terminates anteriorly in a small transverse poocket. (Spp. 1-9.)

1. Teropheress capensis, sp.n.
(Pl. XIlI. figs. 20 \& 20 a.)
Specimens.-(a) $11 \delta \delta$ and 7 of from the northern base of Devil's Peak, Cape Peninsula; also 2 of $i f$ from the northern base of T'able Mountain.

Characters of a $\delta$ specimen (type):-
Carapace narrowed in front, its width across the posterior row of eyes more than $\frac{1}{2}$ but less than $\frac{2}{3}$ of the greatest width. Anterior row of eyes strongly procurved, the median eyes close to the laterals and larger, much further from one another, their lower margins on a level with (or slightly
higher than) the centres of the latter; clypeus very slightly or scarcely longer than an anterior lateral eye's diameter; posterior row of eyes strongly procurved, a line joining the hind margins of the laterals passing slightly in front of the centres of the medians; the median eyes ovate, larger than the laterals and distant about their own length from the latter and nearly half their own length from one another; median eye-area longer than wide, broadest in front; lateral eyes on each side subequal and between $\frac{1}{2}-\frac{3}{4}$ of a dianneter apart; width of the posterior row of eyes slightly more than half the width of the head at the same place, the posterior row also about half a lateral eye's diameter wider on each side than the anterior row.

Chelicera with 1 weak inferior and 3 superior teeth, only the middle one being large.

Legs robust; all the tarsi and the two anterior pairs of metatarsi scopulate to the base, the posterior scopulæ divided ly a broad band of setie; two posterior pairs of metatarsi with a distal scopular band on the side; tibia I with an inner row of 2 spines below; metatarsus I with a pair of basal spines.

Pedipalps.-Tibia(Pl. XIII. fig. 20) measured along upper imer edge subequal to the patella in length, its outer side produced at apex into a long, stout, curved process, which is closely appressed to the tarsus along its whole length with the exception of the apex; this process very broad at base, then suddenly narrowed, the narrow portion long, straight, slightly constricted above and below near apex and ending in a black curved claw. Tarsus large, broadly ovate, acuminate, its length equal to that of the tibia (inclusive of the process), its inner margin with wide shallow simus. Palpal organ very large and compact, occupying the whole width of the underside of the tarsus excepting at the apex, its lower surface divided longitudinally by a dark ridge and provided at the apex with two short processes.
of of.-Legs more denscly scopulate, the first tibia with a short, internal, distal scopula (almost obsolete in the $\delta^{\pi}$ ).

Vulve consisting of a dark, convex, hairy, nearly rotund plate (slightly longer than wide), divided longitudinally by a deep groove, which is bordered on oach side by a low, smootl, black ridge, the ridges united anteriorly in front by a transverse bridge spaming the anterior end of the groove and ending separately behind in a rounded black convexity; the edge of the bridge (which is visible only when dry, as in Pl. X1II. fig. 20 a ) is situated on a level with the anterior edge of the rotund plate, and leneath it the groove is con-
tinued anteriorly for a very short distance, forming a tiny brown pocket, which is truncated or romed at the anterion end and distinetly visible in spirits through the integument.

Length of trunk, i+ ㅇ $8 \frac{1}{2}-11 \frac{1}{2}$, ठ ते $6-8 \frac{1}{2} \mathrm{~mm}$.
In the maturer specimens of both sexes the carapace is testaceous yellow and thickly clothed with silky yellowish hairs and some scattered fine black bristles ; the chelicera are testaceous and the legs yellowish, with the distal segments testaceous; the abdomen is densely clothed with silky, light or dark, somewhat bronzy brown hairs.

The first tibia has $2-3$ spines in the inferior row, and the posterior median eyes are often a little more than an eye's length distant from the laterals, especially in the of $\circ$.
(b) 2 す ot and 5 ㅇ of from Stellenbosch (Dr. R. Broom).
(c) 2 o oo from near Tulbagh Road Station (W. F. P.).
(d) 2 of $\circ$ from Clanwilliam (R. M. Lightfoot and C. L. Leipoldtu).
(e) 1 if from Boschkloof Waterfall, Cedarbergen, Clanwilliam Div. (R. Pattison).

## 2. Xeroplecus delphinurus, sp. n. (Pl. XIII. fig. 21.)

Specimens.-(a) 6 of from the Cape Peninsula (Cape Flats, Bergvliet, Silver Mine Stream, and Hout Bay: $\left.W^{\top} . F . P_{0}\right)$.

Characters of a os specimen from Berguliet:-
Closely agreeing with the type of $X$. capensis, sp. n., and also with similar palpal organ, but differing in having the lateral process of the tibia of the pedipalps distinctly curved just before the apical claw, and with a short but rather deep sinus on the underside here, as in Pl. XIII. fig. 21.

The posterior median eyes are also a little closer together and the tibia of the first leg has 2-3 inferior spines in the inner row.

The other males are similar, but in one of them the first tibia has an extra spine on the inner surface besides the three in the inferior row.

Length of trunk $6 \frac{1}{2}-7 \frac{1}{2} \mathrm{~mm}$.
(b) $1 \delta$ from the Hottentots Holland Mountains, Caledon Div. (near Gordons Bay: R. M1. Lightfoot).

> 3. Xeroplueus interrogator, sp. n. (Pl. XIV. fig. 22.)

3 of from the Cape Peninsula (Bergvliet and Signal Hill: W. $F$. P.).

Characters of a specimen from Berguliet:-
Closely agreeing with the type of $\boldsymbol{X}$. capensis and with similar palpal organ, but differing in having the lateral process of the tibia of the pedipalp, strongly curved near apex, much more strongly so than in $X$. delphinurus, sp. n., and with a much larger inferior sinus (Pl. NIV. fig. 22).

In the other of ot the first tibia has three inferior spines, and in one case the first metatarsus has two pairs of basal spines.

The anterior row of eyes are also slightly less procurved in this species than in the two preceding species, the lower edges of the medians being slightly below the level of the centres of the laterals.

Length of trunk 8 mm .
In the Museum are also 7 of $\circ$ from the Cape Peninsula belonging either to this or the foregoing species or to both, and differing from the $i+$ of $\boldsymbol{X}$. capensis in that the median groove of the vulva is continued anteriorly for some distance beyond the rotund dark plate. It is noteworthy that none of these females, nor the males of $X$. delphinurus and interrogator, have been found on the northern slopes of Devil's Peak and 'lable Monntain, which are, on the other hand, the only localities in the Peninsula where the males and females of X. capensis have been met with.

## 4. Xerophceus flavescens, sp. n. (Pl. XIT. fig. 23.)

1 б from Rondegat, near Clanwilliam (C. L. Leipoldt).
Colour pale yellow, the chelicera and anterior part of carapace reddish yellow; the abdomen pallid, with dark hairs and yellow scutellum.

Carapace narrower than usual; anterior median eyes large, touching the much smaller lateral eyes, whose centres are, if anything, a trifle above the level of the lower margins of the medians, the clypeus subequal to a lateral eye in length; posterior median eyes a little larger than the laterals, about $\frac{3}{3}$ of a long diameter apart and about a diameter distant from the lateral eycs.

Leys longish, the first tibia with an inner row of two spines.
Chelicera with 1 strong and 2 feeble superior teeth, the inferior tooth feeble or obsolete.

Pedipalps.-I'atella decidedly longer than the tibia, the two segments together shorter than the narrow tarsus; lateral process of tibia long and narrow, bent somewhat downwards from the base, but otherwise straight, reaching nearly to end of tarsal organ and minutely inturned at the pointed apex,
very similar to that of X. crustosus, sp. no, hut straighter ; tarsal organ with the greater part of its underside white and membranous, with a long, outcurved, very fine filament arising from a small dark mesial sclerite, the inner basal angle produced into a short hom (Pl. XIV. fig. 23).

Length $8 \frac{1}{2}$ mm.

## 5. Terophans spiralifer, sp. n.

 (Pl. XIV. figs. $2 \perp \& 25$.Specimens- - 2 o ${ }^{\circ}$ and 5 of of from Hanover, and a $\sigma$ and if from Eierfontein, 8-9 miles west of Hanover (S. U. ('ronmeight Schereiner).

ठ ठ (types). -Colour like that of X. capensis, sp. 11.
Carapocee shaped as in I. capensis. Anterior row of cyes very strongly procuived, the medians large, very close to the laterals, and with their inferior margins a little above the line joining the centres of the latter; clypens equal to or very shightly longer than a lateral eye; posterior row of eyes only slightly wider than the anterior row, strongly procurved, a line joining the hind margins of the laterals cutting the moclians in front of their centres, the median eyes very large, ovate, separated by mot more than $\frac{1}{4}$ of their long diameter from one another and by about a diancter from the laterals; anterior and posterior lateral eyes slightly less than a posterior eye's diameter apart.

Chelicera and leys as in capensis, but with fewer spines, the first metatarsus having 1-2 basal spines and the first tibia only 1 inferior spine.

Tedipalps.-Tlibia, viewed from above, turbinate, much broader distally than long, its length, measured along imer upper edge, a little less than that of the patella; its distal part strongly produced laterally on outer side, the process very thick and strong, truncated at apex and bearing on its anterior side a slenderer acuminate process, which is directed forwards almost at right angles to the other and ends in as claw curving downwards; tarsus large, strongly acuminate and ineurved distally, its length very much greater than that of the patella and tibia together (inclusive of the process), the distal portion projecting for more than $\frac{1}{3}$ of the whole length beyond the cavity containing the palpal organ; palpal organ complicated, bearing two long spines, viz. a white one arising trom the middle of the outer eftge, thence ruming in a slight curve forwarts, and conding just before reaching the apex of the tarsus, and an extremely long red spine, which starts at anterior end, and, after describing a spiral curve and
a half, runs backwards to the base of the tarsus and then curves forwards again, rumning along the outer edge of the tarsus alongside of the white spine, and ending together with the latter. In spirits the underside appears as in Pl. XIV. fig. 24.

우 오.-Tibia and metatarsus of first leg often unspined below, the tibia with conspicuous internal scopula.

Tulva appearing in spirits as in Pl. XIV. fig. 25, and consisting of four dark convexities, joined in pairs on each side by a curved deep black ridge and separated by a large longitudinal groove which terminates in front in a small. pocket.

Length of trunk, of of $7 \frac{3}{4}-8 \frac{3}{4}$, it of $7-10 \frac{1}{2} \mathrm{~mm}$.

> 6. Xerophens aridus, sp. n. (Pl. XIV. fig. 26.)

1 it from Tsabis in Bushmanland, 20 miles north-east of Concordia, Namaqualand Div. (J. H. C. Krapohl).

Closely allied to $X$. spicalifer, sp. n., but larger.
Carapace similar, but clothed with pale pubescence ; antcrior row of eyes strongly procurved, the clypens exceeding thie lateral eyes in length; posterior row of eyes also strongly procurved, a line joining the posterior margins of the laterals only just cutting the larger median eyes, the latter eyes about $\frac{1}{4}$ of a long diameter apart, and, if anything, slightly more than a diameter from the lateral eyes.

Legs.-Tibia I scopulate on both sides distally, with one inner apical spine.

Cheticera with 3 superior but no inferior teeth.
Vulve (Pl. XIV. fig. 26) with two deep angular latera? cavities, the anterior pocket situated more posteriorly than in J. spirulifer.

Length of trunk 12 mm .

## 7. Terophacus lunulifer, sp. 11. (Pl. XIV. figs. 27 \& 28.)

Specimens.-9 $\begin{gathered} \\ 8 \\ \delta \text { and } \\ 13\end{gathered}$ of from Signal IFill and the northern and western slopes of Table Mountain and Devil's Peak in the Cape Peninsula ( $F^{\prime}$. Treleaven, W. $l^{\prime}$. P.).

ठ $\delta$ (types). Colour of dark specimens.-(Carapace maho-gany-red, with yellow pubescence; chelicera dark red; leg's pale testaceous yellow; abdomen with dark brown or nearly black hairs above, the muderside paler.

Carapace. -Width of head across the posterior line of eyes almost or quite $\frac{3}{3}$ of the greatest width of the carapace. Anterior median eyes larger than the laterals and separated
from them, their lower margins, if anything, a trifle below the level of the centres of the latter, the clypeus considerably longer than a lateral eye's diameter; posterior row of eyes considerably wider than the anterior row and moderately procurved, a line joining the hind margins of the laterals passing slightly in front of the centres of the medians; the latter oval, a little larger than the laterals, their distance apart about $\frac{1}{2}$ a long diameter (more or less), their distance from the laterals slightly exceeding a long diameter; the lateral eyes on each side about a diameter or slightly less apart.

Chelicera with 3 well-developed teeth on the superion margin, the middle one being very large, the inferior margin with a strong tooth.

Legs with the scopulæ and spines as in X. capensis, sp. 11., but the first tibia with only 1-2 inferior spines and occasionally with an internal spine in addition, but no basal spine.

Pedipalps longish ; the tibia cylindrical, longish, its length (exclusive of the process) a little exceeding that of the patella, its upper surface with a strong mesial spine, its lateral process slender, acuminate, straight or slightly upturned distally when riewed from the side, but slightly curved when viewed from below and simply pointed; tarsus small and narrow, acuminate, the apex obtuse, palpal organ narrower than the tarsus, appearing in spirits as in Pl. XIV. fig. 27, the apical spine very slender, out-turned.

우 ㅇ․-Dyes more spaced out than is generally the case in the male, the posterior medians often separated by a space ouly slightly less than a loug diameter and generally about $1_{2}^{1}-1 \frac{3}{1}$ diameters distant from a lateral eye, the posterior medians also often scarcely larger than the laterals.

First tibia with the distal scopula distinct and occasionaliy with three inferior spines below in the distal half, the basal spine always absent.

Trulva appearing in spirits as in Pl. XIV. fig. 28 ; the posterior part with a pair of blackish somewhat reniform convexities, each with an intensely black cavity on the medial side, and separated by a long median keel, which is strongly convex from behind to in front and sharply marked off on each side; in front of the anterior end of the keel is a small pocket opening posteriorly and visible through the integument as a brown half-moon.

Length, of of $9 \frac{1}{2}-11 \frac{1}{2}$, if of $8 \frac{1}{2}-14 \frac{1}{2} \mathrm{~mm}$.

## 8. Terophewe spolictor, sp . 11. (Pl. NIV. figs. 2y \& 30.)

 Cronwright Schreiner).

Allied to X. lunulifer, sp.n., the darker specimens similarly coloured.
$\delta$ (types).-Carapace and eyes much as in the $\delta$ of lumulifer, except that the clypens is shorter and may be subequal to the length of a lateral eye.

Chelicera with 3 (sometimes 4) superior teeth, of which the proximal one is minnte; the inferior margin withont teeth.

Legs with the scopulæ much as in X. capensis, sp. n.; metatarsus I with a pair of basal spines; tibia I with 3 (in one leg with 5) pairs of inferior spines.

Pedipalps shortish; tibia (exclusive of the process) subequal in length to the short patella, produced at apex on outer side into a stout, dark red, simple process, which hardly equals the rest of the joint in length; tarsus very like that of I. lunulifer ; palpal organ simple, narrower than the tarsus, the apical spine short and stoutish, directed inwards and upwards (Pl. NIV. fig. 29).

우 ㅇ.-Legs. Tibia I with small scopula on outer as well as inner side below and with a single inferior row of 3 spines.

Eyes more spaced than in the $\delta$, the posterior medians at least $\frac{1}{4}$ of a long diameter apart and nearly or quite 2 diameters from the laterals, which may be distant a diameter or more from the anterior laterals.
lulva appearing in spirits as in Pl. XlV. fig. 30 ; the two oblique cavities (lighter in the figure) are separated by a broad keel, which is grooved along the median line and diverges posteriorly; in front of the keel is another cavity terminated anteriorly by the brown pocket.

Length of trunk, of ठ $9-11$, 우 ㅇ 15 mm .

## 9. Merophens Lightfooti, sp. 1. (PI. XIV. figs. 31 \& 32.)

Specimens.-1 of and 1 of from Triangle, Worcester Div. (li. M. Lightfoot, May 1898).

Closely allied to I. spoliator, sp. n., and similarly coloured.
ठ.-Carapace narrower in front, the width of head across the posterior line of eyes less than $\underset{\sim}{2}$ of the greatest width of tho carapace. Anterior median eyes close to the much
smaller laterals, their lower margins on a level with the centres of the latter, the clypens longer than an eye's diameter. Posterior row of eyes strongly procurved, the median eyes distinctly larger than the laterals and nearly $\frac{1}{2}$ a long diameter apart, their distance from the laterals also deciledly exceeding their own length.

Chelicera with only 2 distinct teeth in upper margin, that corresponding to the proximal tooth of the other species being quite obsolete, the lower margin without teeth.

Legs scopulated much as in $X$. capensis, sp. n.; metatarsus I with two basal spines; tibia I with an inferior row of 3 spines.

Pedipalps longer than in spoliator, the tibia attenuated at base, its dorsal side a little longer than the patella and angularly produced at apex, the angle ending in a short slightly out-turned spur ; outer distal edge of tibia obliquely truncated and provided with a small, blunt, subcylindrical process, which curves slightly upwards and inwards at apex; tarsus rather broadly ovate, acuminate at apex ; palpal organ very like that of spoliator but larger, the apical spine hook-like, strongly curving inwards and upwards (Pl. XIV. fig, 31).
o.-Chelicera sometimes with a minute proximal third tooth.

Tibia I with small internal scopula and an interior row of 2-3 inferior spines.

Vulva-plate appearing in spirits as in Pl. XIV. fig. 32, as broad as long, allied in form to that of spoliator, but smaller, the pair of cavities (light in the figure) separated by a broader keel, which is shallowly grooved longitudinally, its edges diverging anteriorly as well as posteriorly, each cavity with a large dark-coloured convexity behind it, the median groove of the keel deepened anteriorly but not posteriorly and not reaching lind end of the vulva-plate.

Length of trimk, ơ,+ 9 mm .
§2. Species in which the longitudinal groove of the vulve of the female is provided anteriorly with a flexible tongue-like appendaye instcad of a pecket. (Spp. 10-16.)

> 10. Xerophaus commumis, sp. n. (Pl. XIV. figs. $33,33 a, \& 34$.

Specimens.-(a) $1 \delta$ and 3 of from the Willowmore District (E. H. L. Schwarz).
o (type).-Very like X. capensis in form, colour, and in the characters of the cyes, legs, and chelicera.

Posterior median eyes about a third of a long diameter apart, the clypens slightly less than a lateral eye's diameter.

Leys.-Tibia I with 1 outer and 1-2 inner spines below.
Pedipalps.-Patella very slightly longer than the tibia (exclusive of the process), the two segments together equalling the tarsus in length; tibia (Pl. XIV. fig. 33 a) oval, cylindrical, provided at its outer distal margin with a strong. spiniform process, which is only slightly shorter than the tibia itself, the apex of the process pointed and minutely incurved but not upcurved; palpal organ as in Pl. XIV. fig. 33, the apex with a short, fine, curved spine, the apex of the black sclerite at the inner basal angle produced upwards into a minute process.
i ․ . Tibic I scopulate on both sides distally, but especially on the inner side, the under surface with an inner row of 2 spines.

Vulva (Pl. XIV. fig. 3t) with a large median groove, containing in its anterior part a large tongue-shaped appendage, the convexity on each side of the posterior half of the groove bordered externally by a curved, black, comma-shaped mark and furrow, the anterior part of the groove flanked on each side by a small depression, the apex of the appendage marked with a small brown spot.

Length of trunk, of 8 , of $\& 8^{3}-11 \frac{3}{4} \mathrm{~mm}$.
(b) $1 \delta$ from the Baths near Montagu (IV. F. P.).
(c) $1 \delta$ and 1 \& from Touws River Station, Worcester Div. (IV. F. P.).
(d) 1 from Laingsburg, Prince Albert Div. (IV. F. P.).
(e) 2 ot from Prince Albert Village (IV. F. P.).
(f) 2 ठ $\sigma$ and 5 of if from Hanover and neighbourhood (Vlagkop, Eierfontein : S. C. Cromoright Schreiner).
(g) 1 万 from Dunbrody (Rev. J. A. O'Neil).
(h) 18 and 3 of from the Kentani District, Transkei (Rev. F. C. Kolbe, Miss A. Pegler, and H. P. Abernethy).
(i) 1 o from Rhode, Mount Ayliff Distr., Pondoland (A. Weisbecker).

Also many other specimens, apparently females of this species, from various parts of Cape Celony.

This is the commonest and most widely distributed species in Cape Colony. In the $\delta$ o the first tibia has 1 outer and usually 2 (rarely 1 or 4) imner spines below, including an apical pair, but in the of there is no outer apical spine below. The length of the clypeus sometimes equals the length of an anterior lateral eye, and the posterior median eyes are sometimes as much as half an eye's diameter apart. The apical
spine of the palpal organ is frequently much straighter than in the type.

> 11. Xeropheus aurariarum, sp. n.
> (Pl. XIT. figs. 35 \& 36.)

Specimens.-4 ${ }^{3}$ o (types) and 3 of of from Witwatersrand, Transvaal (Lliss A. Pegler) ; also several of from Johanneshurg (H. A. Fry) and Krugersdorp, Transvaal.

Closely resembling $X$. communis in general characters, except:-

Length of clypeus exceeding that of an anterior lateral eye, the lower margins of the median eyes also slightly above the level of the centres of the laterals.

Tibia of first leg with 1 onter and 1 inner apical spine (rarely with 2 inner spines below) in the $\delta$, but with only 1 inferior spine in the $o f$.

Pedipalps of oshort, the patella a little longer than the tibia (exclusive of the process), the two segments together distinctly shorter than the tarsus; lateral process of tibia resembling that of $X$. communis in shape, but subequal to the rest of the joint in length; palpal organ as in Pl. XIV. fig. 35 .

Vulva of $i$ as in Pl. XIV. fig. 36, the receptaculum seminis on each side large, embracing the comma-shaped black grooves.

Length of trunk, of of $7-S_{2}^{1}$, of ㅇ $10 \frac{1}{2}-12 \frac{3}{4} \mathrm{~mm}$.

## 12. Terophcous exiguus, sp. n. (Pl. SlV. figs. 37 \& 37 a.)

1 ot from Laingsburg, Prince Albert Div. (R. N. Lightfoot, August 1903).

Closely resembling X. communis, sp. n., but smaller.
Pedipalps.-Tibia (exclusive of the process) subequal to the patella in length, produced on its outer side into a stout acuminate process, which is slightly upturned at apex and is as long as the rest of the joint (1'l. XlV. fig. 37 a) ; tarsus ovate, acuminate, longer than the patella and tibia (exclusive of the process) ; palpal organ very like that of communis (Pl. Xl'. fig. 37).

Length of trunk $6 \frac{1}{3} \mathrm{~mm}$.

> 13. Nerophaus rostratus, sp. 1 .
> (Pl. XIV. figs. $38,3 \mathrm{~S}$ a, \& 39 .)

Specimens.-1 of (type) and 1 if from Graaff lieinet (J. Paynter, September 19(O2).

Closely resembling X . communis, sp.n., in characters of carapace, eyes, spine-armature, and scopule of legs, \&c.

Length of clypeus subequal to the length of an anterior lateral eye.

Legs rather longish, the first tibia in the of with a few imner scopular hairs.

Chelicera with a strong inferior tooth.
Pedipalps of ot longer than in X. communis, the patella as long as the tibia (exclusive of the process), but the two segments together longer than the tarsus; lateral process of tibia short and stout, the apex suddenly narrowed and clawlike, strongly curved inwards and a little downwards (Pl. XIV. fig. 3S) ; palpal organ larger and more extensively chitinized than in communis, the apical spine very short (Pl. XIV. fig. 38 a).

Vulva of o nearly but not quite like that of communis, differing mainly in the form of the receptaculum seminis (Pl. XIV. fig. 39).

Length of trunk, of $10 \frac{1}{2}$, of 12 mm .

## 14. Xerophceus crustosus, sp. n. (Pl. XV. fig. 40.)

1 万 from East London ( $J$. Wood).
Allied to $X$. communis, sp. n., but larger.
Carapace mahogany-red, the head narrow; anterior median eyes with their lower margins situated slightly below the level of the centres of the lateral eyes, the clypeus a little longer than a lateral eye; posterior row of eyes much wider than the anterior row, the median eyes equal to the laterals in size and at least $\frac{3}{4}$ of a long diameter apart, distant from the laterals about $1 \frac{1}{2}$ times a long diameter.

Chelicera with weak lower tooth, but strong upper teeth.
Legs very robust, the first tibia with $0-1$ outer and 2 imer spines below.

Pedipalps.-Tibia (viewed from above) attenuated at base, its length (exclusive of the process) slightly less than that of the patella, the lateral process resembling that of X.communis in slape, but very long, much longer than the rest of the joint, and reaching as far as the distal end of the palpal organ, its distal part slightly curving upwards, the apex pointed and minutely incurved ; palpal organ very like that of X. communis, the apical spine short ( $\mathrm{Pl} . \mathrm{I}^{2}$. fig. 40).

Length of trunk 11 mm .

## 15. Xerophens appendiculatus, $\mathrm{sp} . \mathrm{n}$.

(Pl. XV. figs. 41 \& 42.)
Specimens.-(a) 3 ס $\delta$ and 1 from Hanover (C.S. Cronwright Šchreiner).

ठ o (types).-Colour of carapace light testaceous yellow, the legs slightly paler; the chelicera blackish red; the ablomen clothed with brown hairs.

Carapace.-Width of head across posterior median eyes almost or quite $\frac{2}{3}$ of the greatest wilth of the carapace. Anterior row of eyes strongly procurved, the lower margins of the median eyes slightly above the level of the centres of the laterals, the clypens long, ahost twice as long as a lateral eye; posterior row of eyes much wider than the anterior row, moderately procurved, a line joining the hind margins of the laterals cutting the medians a little in front of their centres; the posterior median eyes oval, much larger than the laterals, distant from the latter about $1 \frac{1}{4}$ times a long diameter or slightly more, but only $\frac{1}{4}$ of a diameter from one another ; lateral eyes on each side separated by a little more than a posterior eye's diameter.

Chelicera with the inferior tooth rather small.
Legs longish, the first tibia conspicuously scopulated on each side distally, the posterior metatarsus strongly scopulate on each side; metatarsus I with 2 basal spines; tibia I with an inferior row of $2-3$ spines.

Pedipalps.-Tibia (exclusive of the process) short, equal to the patella in length, its shape turbinate when seen from above, its lateral process very long, as long as the patella and tibia together, closely appressed to the tarsus except at the apex, slender, pointed, appearing perfectly straight when seen from the side (except at base, where it is slightly bent and suddenly and strongly thickened); tarsus long; ovate, acuminate; palpal organ rather complex, provided in the middle at apex with a short, curved, black spine or spur and a long, extremely fine filament, and on the inner side at the base with a stout, curved, obtuse process (Pl. XV. fig. 41).
f.-Eyes slightly more spaced, the clypens $1 \frac{1}{2}$ times the length of an anterior lateral eye, the median eyes a little removed from the laterats, the posterior median eyes distant at least $1 \frac{1}{2}$ times a long diameter from the posterior laterals.

Legs.-Metatarsus 1 with 1-2 basal spines.
Vulva (Pl. XV. fig. 42) with a couple of large lateral depressions, which are bordered on the immer side by a pair of sharp black edges converging posteriorly, each depression containing a large brown convexity posteriorly ; anterior
part of vulva-plate with a median, Hexible, tonguc-like appendage lying in a groove.

Length of trunk, of ठ $9-9 \frac{3}{4}$, if 12 mm .
(b) $1 \delta^{\pi}$ and 1 of from Zululand (IV. Auderson). The $\delta^{2}$ does not apparently differ from the type, but in the of tho appendage of the vulva reaches further back relatively to the lateral cavities.

## 16. Terophceus Patricki, sp. n. (Pl. XV. fig. 43.)

1 § from the Pungwe, 50 miles east of Umtali, in Portuguese East Africa ( $1 . L$. Patricl).

Colour, form of carapace, and the ocular area resembling. that of $X$. communis, except that the elypeus is distinctly longer than an anterior lateral eye; the posterior median eyes oval, large, much larger than the laterals, and $\frac{1}{3}$ of a long diameter apat.

Chelicera with the inferior tooth very small.
Legs longish, slender ; metatarsus I with 0-1 basal spine ; tibia I sparsely scopulate on both sides distally, the underside with an imner row of $3-4$ spines.

Pedipulps.-Tibia (exclusive of the process) slightly longer than the patella, its lateral process resembling that of X. communis in shape, but straighter, almost as long as the rest of the joint, its apex pointed and minutely incurved, not quite reaching to the middle of the tarsus; palpal organ somewhat like that of X. appendiculutus, with similar internal process, but with only a short apieal spine, which is direeted outwards and downwards (Pl. XV. fig. 43).

Length of trink $8 \frac{1}{2} \mathrm{~mm}$.

## Genus Melanophora, C. Koch.

## 1. Melanophora fuliginea. (Pl. XV. figs. 44-46.)

Specimens.-(a) 7 ㅇ ㅇ from Signal Hill, Cape Town, and several do from the same locality. Females of this species have not been found in other parts of the Peninsula.
of of (types).-Colour black, the legs brownish distally and frequently also at base, the first pair of femora with large pale jellowish area on both inner and onter surfaces; pulmonary opercula pale yellowish or brownish, the postgenital portion of the abdomen often more or less pale yellowish.

Anterior row of eyes strongly procurved, the lateral eyes considerably larger than the medians, the length of the clypeus
a little exceeding that of a lateral eye; posterior row of eyes almost straight (scarcely recurved), a little wider than the anterior row, the median eyes flattish and appearing (in spirits), if anything, slightly smaller than the convex lateral eyes, their distance apart also slightly less than or subequal to their distance from the laterals.

Chelicera normally with 1 large and 3 small superior and 2 small but distinct inferior teeth on the imner margin.

Leys.-Anterior tarsi and metatarsi scopulate below, the first metatarsus with 2 inferior basal spines, the tibia unspined.

Vulva as in Pl. XV. fig. 44.
ठ ${ }^{\circ}$. Pedipalps.-Patella a little longer than the tibia (exclusive of the lateral process); tibia with simple straight lateral process, which is slightly longer than the rest of the segment; tarsus oval, acuminate, slightly shorter than the patella and tibia, together with the lateral process; tarsal organ as in Pl. XV. fig. 45, the distal spine curved, strong, with a smaller spine on its side at some distance from the apex (fig. 46), the apex itself not projecting out of the cavity of the tarsus.

Length of trunk, 오 ㅇ, $6 \frac{3}{4}-9 \mathrm{~mm}$.
(b) 2 of and 1 of from Slanghoek, Worcester Div. (II. F. P.).

## 2. Melanophora invida, sp. n. (Pl. XV'. fig. 47.)

Specimens.-(a) 9 of from various parts of the Cape Peninsula (Cape Flats, Camps Bay, Hout Bay, Kalk Bay Mountain) and 1 of from Maitland Flats, Cape Div.*

Vulva as in Pl. XV. fig. 47, being very wide and practically filling the space between the lung-opercula.

Other characters as in M. fuliginea, sp. 11, but the inferior teeth of the chelicera very minute and sometimes apparently obsolete.

Length of trunk, if if, 6-7 $7 \frac{1}{4} \mathrm{~mm}$.
(b) if from Stellenbosch (Dr. R. Broom).
(c) 1 if from near Bethlehem, Stellenhosclı Div. (G. French).
(d) 1 of from Ceres (IT. F. P.).
(e) 2 of from Rabiesberg, Worcester Div. (W. F. P.).
(f) 1 of from 'Touws River, Worcester Div. (IV. F. P.).

[^1]3. Me7anophora Lightfooti, sp. n. (Pl. XV. fig. 4S.)

2 if 우 from Ceres (R. M. Lightfoot).
Vulva as in Pl. XV. fig. 48.
Closely allied to M. invida, sp. n. Chelicera with 2-3 distinct inferior teeth.

Length of trunk $6 \frac{1}{2}-S \frac{1}{2} \mathrm{~mm}$.
4. Melanophora Simoni, sp. n. (Pl. XV. fig. 49.)

Sp cimens. - (a) 12 of from various parts of the Cape Peninsula (Cape Flats, Camps Bay, Hout Bay, Kalk Bay and Table Mountains), including a specimen from Signal Hill.

## Vulva as in Pl. XV. fig. 49.

Closely resembling M. fuliginea, sp. n., but smaller and often less black. Posterior median eyes more convex and more sharply defined.

Length of trunk, if $+\frac{1}{2}, 6 \frac{1}{2} \mathrm{~mm}$.
(b) 1 it from Graliamstown (Rev. J. A. O'Neil).
5. Melanophora redunca, sp. 11. (Pl. XV. fig. 50.)

Specimens.-(a) 5 if from the Cape Peminsula (Cape Flats, Kalk Bay Monutain).
lulva as in Pl. XV. fig. 50.
Other characters as in M. Simoni, sp. n. Chelicera with 2-8 minute inferior teeth.

Length of trunk, of $q$, $5 \frac{1}{4}-6 \frac{1}{2} \mathrm{~mm}$.
(b) 1 if from Brandvlei, Worcester Div. (W. F. P.).
(c) 1 of from 'louws River, Worcester Div. (W. F. P.).
(d) 1 if from Avontuur, near Stormsvlei, Swellendam Div. (W. F. P.).
6. Melanophora montana, sp. n. (Pl. XV. fig. 51.)

Spreimens.- (a) 3 of from the Cape Peninsula (Table Mountain, ©́c.).

Vulva as in Pl. XV. fig. 51.
()ther claracters as in 11. fuliginea, sp. n. Chelicera with 2-3 inferior teeth.

Length of trunk $6 \frac{3}{4}-8 \frac{1}{4} \mathrm{~mm}$.
(b) 1 of from Port Llizabeth (J. L. Drèje).
7. Melanophora Broomi, sp. n. (Pl. XV. fig. 52.)

Specimens.-(a) 1 of from Stellenbosch (Dr. R. Broom).
lulva as in Pl. XV. fig. 52 .
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Other characters as in $M$. Simoni, sp. n.
Length of trunk 5 mm .
(b) 1 if from Bergvliet, Cape Peninsula (IV. F. P.).
(c) 2 if from St. Helena Bay, Malmesbury Div. (J. E. C. Gooll').
(d) 2 of from Porterville Road (formerly Piquetberg Roall) Station, Tulbagh Div. (R. MI. Lightfoot).
(e) 1 \& from Tulbagh Road (IV. F. P.).

## 8. Melanophora Gooldi, sp. n. (Pl. XV. fig. 53.)

3 if $i f$ from Stompneus and Steenbergs Cove, St. IIelena Bay, Malmesbury Div. (J. E. C. Goold).

Vulva as in Pl. XV. fig. 53.
Other charaeters as in M. fuliginea, sp . n .
Length of trunk $6 \frac{1}{2}--8 \frac{1}{2} \mathrm{~mm}$.

> 9. Me7anophora Cronwrighti, sp. n. (Pl. XV. figs. 54 \& 55.$)$

Specimens.-(a) 19 if $\circ$ and $4 \delta$ from Hanover, and 1 of and 2 o $\delta$ from Vlagkop, 5-6 miles north of Hanover, all eolleeted by Mr. S. O. Cronwright Schreiner.

Very elosely allied to M. Gooldi, sp. n., but the of $\%$ with somewhat different vulva (Pl. XV. fig. 54).

Chelicera with 1-2 inferior and 3-4 superior teeth on inner margin.

Perlipalps of $\mathbf{o n}^{7}$.-Patella slightly longer than tibia (exelusive of the lateral process) ; lateral process of tibia longer than the rest of the joint; tarsus as long as the patella and tibia together with the lateral process; tarsal organ very like that of M. fuliginea, sp. n., but with the distal spine different (Pl. XV. fig. 55).

Length of trunk, 우 오 $5-8 \frac{1}{2}$, ठ क ㅈ $4 \frac{3}{4}-6 \frac{1}{2} \mathrm{~mm}$.
(b) 3 if $i$ from Worcester (R. M. Lightfoot).

> 10. Melanophora caldarin, sp. n. (Pl. XV. figs. $56 \& 57$.

Specimens-2 of of and 1 from the Hot Baths at Montagu, colleeted by my wife and myself.
of of (types).-Colour as in the preceding forms.
Eyes.-Anterior row strongly procurved, the lateral eyes eonsiderably larger than the medians; posterior row straight, searcely or not at all wider than the anterior row, the eyes equidistant, the laterals larger than the medians.

Chelicera with 4 superior but apparently only 1 inferior tuoth on inner margin.

T'wo anterior pairs of legs without any spines bclow.
Tulva as in Pl. XV. fig. 56.
万. Pedipalps.-Tibia short, its entire length (inclusive of the lateral process) being only about equal to that of the patella, the process forming about $\frac{1}{2}$ the whole length, the tarsus considerably longer than these two segments together ; palpal organ with a long, fine, curved, black spine on outer side distally (Pl. XV. fig. 57).

Length of trunk, 우 ㅇ $5 \frac{1}{3}-5 \frac{2}{3}$, of $4 \frac{3}{4} \mathrm{~mm}$.

> 11. Melanophora zonognathus, sp. n. (Pl. XV. figs. 58 \& 59.)

Specimens.-4 우 오 and 4 б $\begin{gathered}\text { of from Eierfontein, 8-9 miles }\end{gathered}$ west of Hanover (S. C. Cronoright Schreiner).

ㅇ ㅇ.-Abdomen black; carapace and legs black to dark brown; underside and tarsi paler; the anterior pair of femora dark, without the large pale areas on outer and inner surfaces.

Eyes.-Anterior row procurved, the lateral eyes large, much larger than the small medians; posterior row wider, straight, the eyes equidistant, the laterals larger than the medians.

Labium and maxille longish, the latter deeply emarginate on outer side.

Chelicera with 1 large and several smaller superior and 2-3 well-developed inferior teeth on inner margin.

Legs.-Metatarsus I unspined, II with a pair of basal spines below.

Vulva as in Pl. XV. fig. 58.
$\delta^{\top} \mathrm{o}^{2}$. Pedipalps.-Tibia (including lateral process) as long as the patella, the process small, shorter than the rest of the joint; tarsus longer than the two preceding joints together; palpal organ with long slender back spine arising distally on outer side and curving backwards and then forwards on lateral side (Pl. XV. fig. 59).

Length of trunk, it \& $5 \cdot \frac{1}{2}-6 \frac{1}{4}$, of $\delta 4 \frac{3}{4}-6 \frac{1}{4}$ mun.

> 12. Melanophora humilis, sp. n. (Pl. XV. figs. 60 \& 61.$)$

Specimens.-1 o (type) and 1 of from Ceres (TV. F. P., Octuber 1897).

Infuscated, the underside and the tarsi paler, the anterior pair of femora with large pale yellowish area on each side.

Eypes as in M. zonognathus, sp. n.
Chelicera with 2 inferior teeth.
Legs.-Anterior metatarsus with a pair of inferior spines.
Trulva of $\frac{q}{}$ as in Pl. XV. fig. 60.
Pedipalps of $\mathbf{\delta}^{\circ}$.-Tibia (exclusive of the process) slightly shorter than the patella, but inclusive of the process longer, the process shorter than the rest of the segment; tarsus shorter than the tibia and patella together; palpal organ as in Pl. XV. fig. 61.

Length, of $\delta, 2 \frac{4}{5} \mathrm{~mm}$ 。

## 13. Melanophora O'Neili, sp. n. (Pl. XV. fig. 62.)

Specimens-2 if from Dunbrody, Uitenhage Div. (liev. J. A. O'Neil).

Colour.-Carapace and chelicera mahogany-brown to blackish red, the legs only slightly paler than the carapace. Abdomen infuscated or black, pallid below.

Eyes.-Anterior row procurved, the lateral eyes decidedly larger than the medians; posterior row ahmost straight (a trifle procurved), the medians smaller than the laterals and slightly nearer to the latter than to one another.

Labium and mazillee as in zonognathus, sp. n.
Chelicera with 3 large superior but 110 inferior tectl.
Leegs.-Mctatarsi I and II unspined.
V'ulva as in Pl. XV. fig. 62.
Length of trunk $5 \frac{1}{4}-7 \mathrm{~mm}$.

## 14. Nelanophora corrugata, sp. n. (Pl. X V. figs. 63 \& 64.)

Specimens.-(a) 16 of of and $2 \delta \sigma^{\sigma}$ from Hanover and $1 \delta^{t}$ and 3 of of from Vlagkop and Eiertontein, near Hanover (S. C. Cromwright Schreiner).
 legs paler except the patella and tibia of I and the tibia of II, which are generally darker or more or less infuscated, the fourth tibia and metatarsus also often darkened. Abdomen more or less infuscated above, pale below, the scutellum of the o testaceous.

Eyes rather large and conspicuous, the anterior row strongly procurved, the laterals largest; the posterior row wider than the anterior row and very slightly procurved, the medians oblique, very close together, a little larger than the laterals and much nearer to one another than to the latter ; clypeus slightly shorter than the Jength of an anterior lateral eye.

Maxillee broad at base, obtuse at apex, emarginate externally.

Chelicera with about 3 minute teeth on superior imer margin, but none on lover margin.

Legs stout, especially the femur, patella, and tibia of first pair ; tibia I and II unspined below ; metatarsus I unspinel, II with 1 (rarely 0) onter and 2 imer, stout, short spines.

Vulva as in Pl. XV. fig. 63, with a large, transversely striated, anterior area.
$\delta^{\pi} \delta^{2}$. Legs.-T'ibire I and II with 3-4 outer and 2-4 imner spines below, II with 1-3 upper spines as well ; metatarsi [ and II with 2 inferior pairs of spines, Il with an imer superior spine as well.

Pedipalps.-Tibia together with its large process much longer than the patella ; palpal organ as in Pl. XV. fig. 64, with a long slender black spine, which arises anteriorly ant evils round the upper and outer side and ends on the lower surface.

Length of trunk, of of $4 \frac{2}{3}-\mathrm{S}$, of of $5 \frac{1}{2} \mathrm{~mm}$.
(b) 1 of from Kuruman in British Bechuanaland (G. E. Beare).

Very distinct from any of the species described above.

## 15. Melanophorco arida, sp. n. (P1. XV. fig. 65.)

Specimens. -1 i and 1 juv. from Laingsburg, Prince Albert Div., collected by my wife and myself.

Very closely allied to the foregoing, but with the abdomen pallid above, the posterior row of eycs not wider than the anterior row, the posterior lateral eyes being nearer the medians (but further from them than the latter are from one another), the chelicera with a minute inferior tooth and $4-5$ minnte superior teeth on inner margin; tibia II with or without an inferior spine, and the vulva as in Pl . XV. fig. 65.

Length of trunk in $\circ \frac{1}{2} \mathrm{~mm}$.

> 16. Melanophora acanthognathus, sp. n. (Pl. XV. fig. 66.)

Specimens.-7 if from Cape 'Town and the Cape Peninsula.

Colour testaceous, the legs sometimes somewhat darkened, the sternum bordered with black; the abdomen blackened, its ventral surface pallid, or, at least, paler.

Anterior row of eyes strongly procurved, the laterals larger than the modians, the clypeus longer than a lateral eyc;
posterior row straight (scarcely procurved), slightly or scarcely at all wider than the anterior row ; the eyes large, the medians triangular, larger than the laterals and slightly nearer to one another than to the laterals.

Chelicera with some superior but no inferior teeth on inner margin ; the anterior surface densely covered with numerous longish spines.

Maxillce obtuse, slightly emarginate externally, the labium shortish.

Legs.-Tibir I and II with 0-1 inferior spine; metatarsi I and II with two long bands of slenderer spines and generally also a basal pair of stouter spines below; tarsi I and II also furnished with two rows of small spines below and scopulate on each side.

I'ulva as in Pl. XV. fig. 66.
Length $7-\mathrm{S}_{\frac{1}{2}} \mathrm{~mm}$.

## EXPLANATION OF TIIE PLATES.

## Plate XIII.

Fig. 1. Platyoides bidentatus, sp. n., 오. Vulva.
Fig. 2. Ditto, ot. Tibia, tarsus, and palpal organ of left pedipalp from below.
Fig. 3. Platyoites quinquedentatus, sp. n., 오. Vulva.
Fig. 4. Drassodes lophognathus, sp. n., o'. Tibia and tarsus of right pedipalp from above.
Fig. 5. Ditto, on $^{\text {. }}$ Right palpal organ removed from the tarsus and seen obliquely from the medial side and below.
Fig. 6. Ditto, ㅇ. Vulva.
Fig. 7. Drassodes tessellatus, sp. n., ㅇ. Vulva.
Fig. 8. Ditto, of. Apex of process of right palpal organ in same position as in fig. 5.
Fig. 9. Drassodes solitarius, sp. n., ․ Vulva.
Fig. 10. Drassodes caffierianus, sp. n., ot. Distal part of right palpal organ in same position as in fig. 5.
Fig. 11. Drassodes calceatus, sp. n., ㅇ. Vulva.
Fig. 12. Trassudes Gooldi, sp. n., ㅇ. Vulva.
Fig. 13. Drassodes lyratus, sp. n., ㅇ. Vulva.
Fig. 14. Drassudes helence, sp. n., ${ }^{7}$. Right pedipalp from below. $14 a$. Distal process of palpal organ in same position as in fig. 5 , to show the dorsal tooth.
Fig. 15. Drassodes Dregei, sp. n., \&. Vulva.
Fig. 16. Drassules ereptor, sp. n., 9 . Vulva.
Fig. 17. Ditto, of. liight pedipalp from below.
Fig. 18. Scotophous relegatus, sp. n., ठ'. Tibia of right pedipalp from outer side. I8 $\boldsymbol{c}$. Tarsus and palpal organ of right pedipalp from below.
Fig. 19. Diaphractus Leipoldti, sp. n., of. Vulva.
Fig. 20. Xerophcens capensis, sp. n., ő. Right pedipalp from outer side. $20 \%$. $\frac{\text {, vulva. }}{}$
Fig. 21. Nerophaus de phimurus, sp. 11., d. Tibia of right pedipalp from uster side.

## Plate XIV.

Fig. 22. Terophens interrogator, sp. n., 3. Tibia of right pedipalp from onter side.
Fig. 29. Xerophcus fluvescens, sp. n., 8. Right pedipalp from below.

Filf. 25. Ditto, q. Vulra.
Fig. 26. Xermpheus aridus, sp. n., +1. Vulva.
Fiy. 27. Teropheus lumilifer, sp. n., $\delta$. Right pedipalp from below.
Fiy. 28. Ditto, P . Vulvat.
Fig. 29. Terophous spoliator, sp. n., ठु. Right pedipalp from outer side.
Fig. 30. Ditto, f . Tulva.
Fiy, 31. Xeropheus Lightfooti, sp. n., dै. Right pedipalp from outer side.
Fig. 32. Ditto, 9 . Vulva.
Fig. 33. Xerophcus communis, sp. n., o $^{7}$. Tarsus and palpal organ of right pedipalp from below. : З3 a. Tibia of right perlipalp from outer side.
Fig. 34. Ditto, q. Vulva.
 right pedipalp from below.
Fig. 36. Ditto, of. Vulva.
Fiy. 37. Xerophens exignus, sp. n., ot. Tarsus and palpal organ of righlt pedipalp from below. 37 a. Tibia of right pedipalp from outer side.
Fig. 38. Teropheus rostratus, sp. n., $\mathbf{o}^{*}$. Tibia of right pedipalp from outer side. 38 a. Tarsus and palpal organ of right pedipalp from below.
Fig. 39. Ditto, ․ . Vulva.
Plate XV.
Fig. 40. Xerophceus crustosurs, sp. n., ठ . Tarsus and palpal organ of right pedipalp from below.
Fig. 41. Xeropheus appendiculatus, sp. n., ơ. Right pedipalp from below.
Fig. 42. Ditto, \&. Vulva.
Fig. 43. Xeropheus Patrieki, sp. n., d'. Tarsus and palpal organ of right pedipalp from below.
Fiy. 44. Melitnophora fuliginen, sp. n., 오. Vulva.
Fiy. 45. Ditto, $\boldsymbol{\delta}^{6}$. Tarsus and palpal organ of right pedipalp from below.
Fig. 46. Ditto, ${ }^{6}$. Distal part of right palpal organ from outer side with the tarsus removed.
Fig. 47. Melenophora incida, sp. n., \& Yulva.
Fily. 48. Melanuphora Lightfooti, sp. n., ㅎ. Vulva.
Fig. 49. Melanophora Simoni, sp. n., of. Vulva.
Fig, 50. Melanophora redunca, sp. n., f. Vulva.
Fiy. 51. Metenophora montena, sp. n., it. Vulva.
Fíg. 52. Melenophora Broomi, sp. n., 오. Vulva.
Fii. 53. Melamophura Ciooldi, sp. n., if. Vulva.
Fig. 54. Melanophora Cromurighti, sp. n., ㅇ. Vulsa.
Fig. 55. Ditto, ${ }^{*}$. Right palpal organ from outer side, remored from the tarsus.
Fig. 56. Melunophora caldaria, sp. n., f. Vulva.
Fig. 57. 1jitto, Bt $^{\text {. Right palpal organ from outer side, remored from }}$ the tarsus.

Fig. 58. Melanophora zonognathus, sp. n., \&. Vulva.
Fig. 59. Ditto, ot. Tarsus and palpal organ of right pedipalp from below.
Fig. 60. Melanophora humilis, sp. n., f. Tulva.
Fig. 61. Ditto, ${ }^{\text {o }}$. Tarsus and palpal organ of right pedipalp from below.
Fig. 62. Melanophora O'Neili, sp. n., ㅇ. Vulra.
Fig. 63. Melanophora corrugata, sp. n., ㅇ. Vulva.
Fig. 64. Ditto, ${ }^{\text {d }}$. Right pedipalp from below.
Fig. 65. Melanophora arida, sp. n., 오. Vulva.
Fig. 66. Melanophora acanthognathus, sp. n., 오. Vulva.

> XLIII.-Descriptions of Tioo new African Species of Barbus. By G. A. Boulenger, F.R.S.

The paradoxical section of Barbels without barbels (Systomus, McClelland, Bleeker), long believed to be restricted to Southeastern Asia, has, within the present century, received several additions from Africa. 'Two further species are here described, bringing the number of African species up to eight, which may be distinguished by means of the following key:-

## A. Lateral line complete.

Sc. 29-32 $\frac{5 \frac{1}{5}}{5}$; depth of body $3 \frac{1}{5}$ to $3^{3}$ times in total length ; caudal peduncle uwice as long as deep
[1906 (L. Victori:i). B. Maydalence, Blgr.,

Sc. $28 \frac{3-2}{\frac{3}{2}}$; depth of body 3 times in total length ; caudal peduncle once and $\frac{1}{2}$ as long as deep
[1902 (Con fo). B. Brazza, Pellegr.,

Sc. $25 \frac{\frac{3}{2}}{3 \frac{1}{2}}$; depth of body $2 \frac{1}{2}$ times in total length; caudal peduncle as long as deep. . B. aspilus, sp.n.
Sc. $22-25 \frac{3 \frac{2}{9}-\frac{1}{2}}{3 \frac{2}{2}}$; depth of body $2 \frac{2}{3}$ to $3 \frac{1}{3}$ times in total length ; caudal peduncle not or but slightly longer than deep
[(Nile).
B. anema, $\mathrm{Blgr}$. , 1903
 length ; caudal peduncle once and $\frac{1}{2}$ as long as deep

B. Lateral line absent or reduced to a fer tubules; depth of body equal or nearly equal to length of head, 3 to $3 \frac{1}{2}$ times in total length.
Sc. 22-25 $\frac{32-4 \frac{4}{23}-\frac{4}{2}}{32}$; origin of dorsal midway between end of snout and root of caudal....
Sc. 20-23 $\frac{\frac{32}{32}}{32}$; origin of dorsal nearer end of snout than caudal
[1903 (Nile). B. stigmatopyyus, Blyr., 19-20 $\frac{3 \frac{3}{2} \frac{1}{2}}{2}$; origin of dorsal midway between end of snout and root of caudal. . . . . . . . . B. pumilus, Blgr., 1901


[^0]:    ＊Helged round，alluding to the maxille．
    Aun．\＆Mag．N．Hist．Ser．7．Vol．xx．

[^1]:    * I am unable to identify the males of this and the following Peninsular forms. Some of these males are apparently scarcely distinguishable from those of Mr. fuliginea, sp. 11.

